



Supplementary Materials

Table S1. Mean results and fruit appearance characteristics for varietal checks evaluated at Uvalde, TX.

	Genotype	TY ^y	TF	F W	FL	FD	TS S	R T	Flesh Color ^x	Rind Patter n	Fruit Shape
1	#840 ^w	37619. 7	5755. 7	6.9	34. 3	18. 6	9.2	1.5	Scarlet Red	Wide Stripe d	Blocky
2	Pathfinder ^w	45419. 8	7624. 4	7.0	36. 7	19. 1	10.7	1.6	Coral Red	Wide Stripe d	Elong
3	Estrella ^v	18944. 9	6936. 7	5.7	30. 1	16. 3	8.6	1.1	Scarlet Red	Wide Stripe d	Blocky
4	Facination ^u	36015. 9	6727. 4	6.8	26. 1	21. 9	10.7	1.4	Scarlet Red	Wide Stripe d	Blocky

^y TY = total yield (Mg ha⁻¹), TF = total fruit (thousand fruit ha⁻¹), FW = fruit weight (kg), FL = fruit length (cm), FD = fruit diameter (cm), TSS = total soluble solids (°brix), RT = rind thickness (cm). ^x Fruit characteristics as described in the literature. ^w Averaged over 2018 and 2019 seasons. ^v In 2018 season. ^u In 2019 season

Table S2. List of germplasm with its pedigree.

Genotypez	Pedigree
1 Crimson Diamond (PI 600950)	Black Diamond / Crimson Sweet
2 Sunshade (PI 635726)	Mutant of Charleston Gray
3 TAM 2	
4 Verona (PI 635712)	Triple cross Shipper, Blackstone, and Charleston Gray
5 Muchas shandia (PI 543210)	Bolivian
6 Chubby Gray (PI 600951)	Yellow Flesh Tendersweet / Charleston Gray
7 TAM 22	Kengarden / Calhoun Gray
8 TAM 14	Sugar Lee / 183399
9 Crimson Sweet	((Miles / Peacock) // Charelston Gray)
10 Calhoun Gray	Calhoun Sweet / Charleston Gray
11 TAM 9	Crimson Sweet / 255137
12 TAM 6	
13 ZWRM50	Chinese
14 Strain II	Japanese
15 Charleston Gray	((((Africa 8 / Iowa Belle) // Garrison) /// Garrison) //// ((Hawkesbury / Leesburg) // Garrison)
16 Klondike Black seeded	a mutation selected in California
17 TAM 4	
18 V-CI-9 (PI 512375)	Spaniard
19 Tastigold (PI 547106)	Crimson Sweet / Long Crimson
20 Sugar Baby	Tought Sweets selection



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